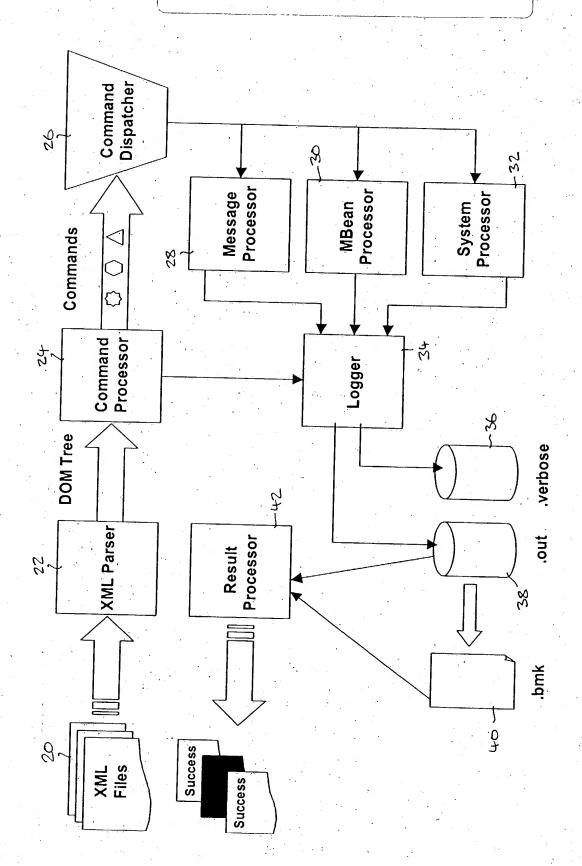Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
Serial No.: Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
Sheet 1 of 19

FIGURE 1

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
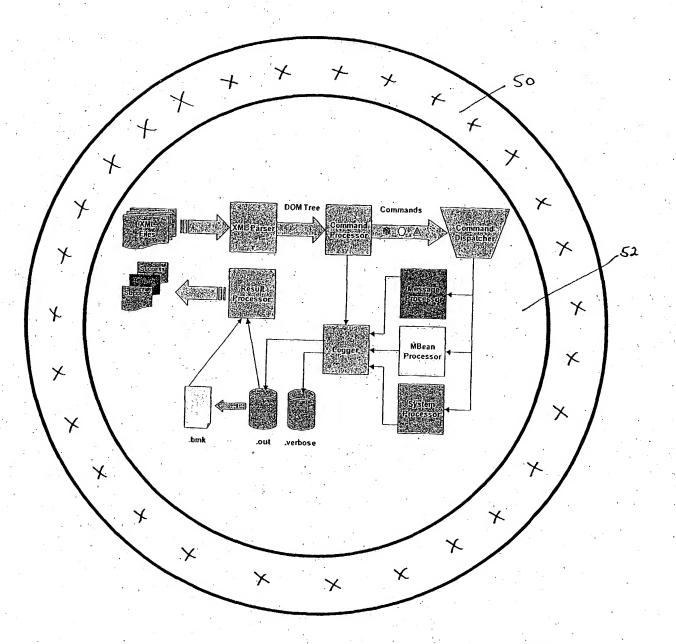   Sheet 2 of 19

FIGURE 2

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
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FIGURE 3

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
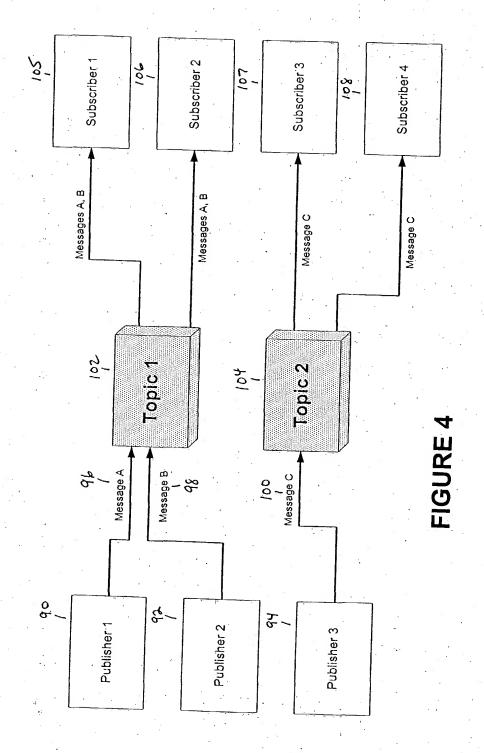Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
Serial No.: Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
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FIGURE 4

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
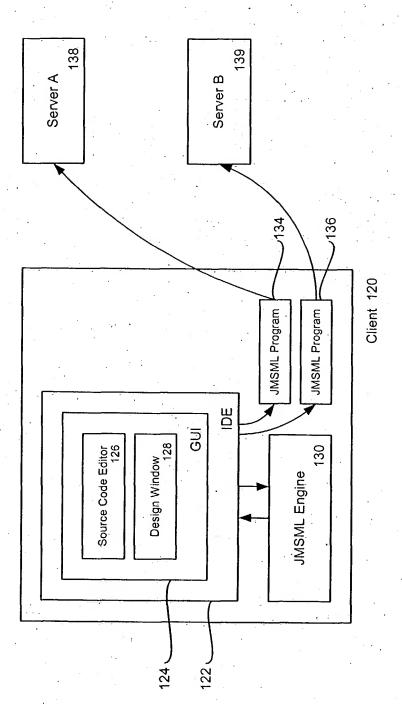Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
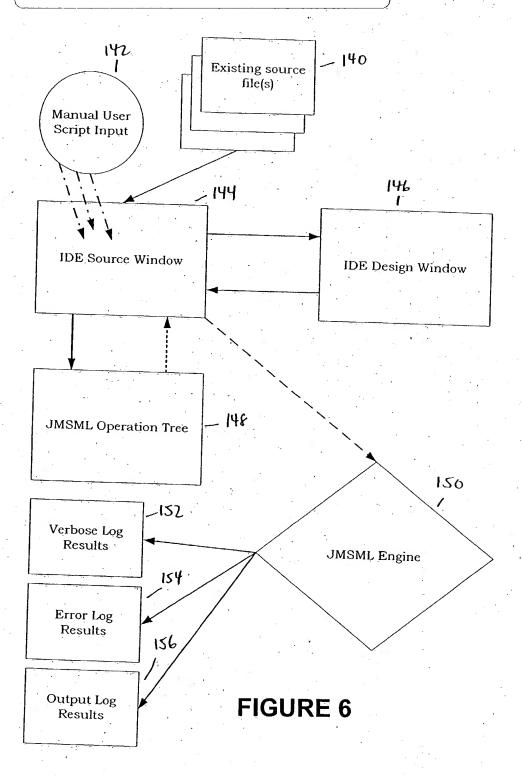   Sheet 5 of 19

FIGURE 5

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
Scrial No.:   Unknown   Atty/Agent: Karl Kenna
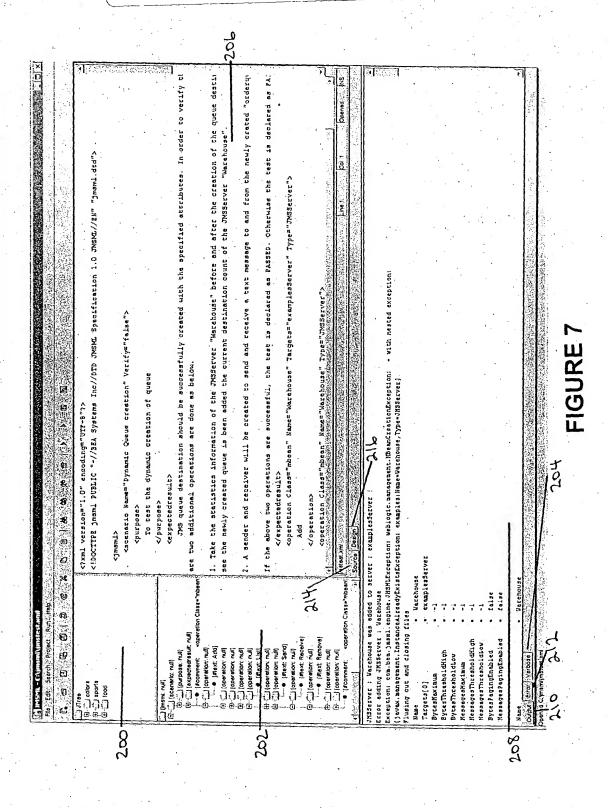Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
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Manual User
Script Input

Existing source
file(s)

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IDE Source Window

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IDE Design Window

JMSML Operation Tree — 148

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Verbose Log
Results — 152

JMSML Engine

Error Log
Results

154

Output Log
Results

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FIGURE 6
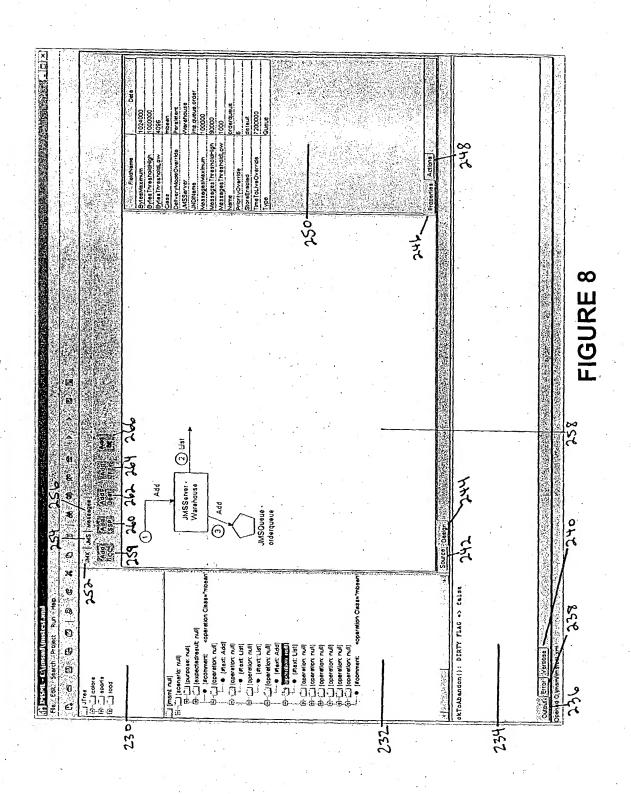
Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
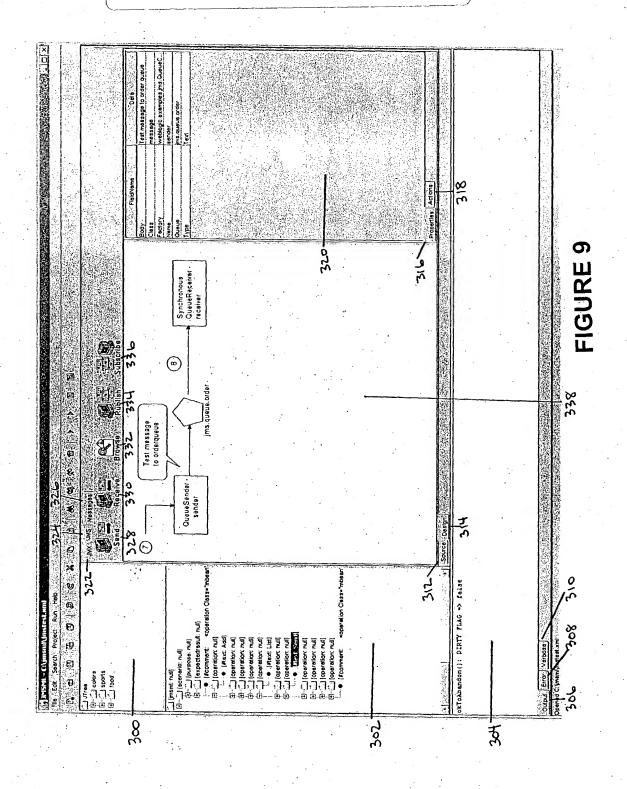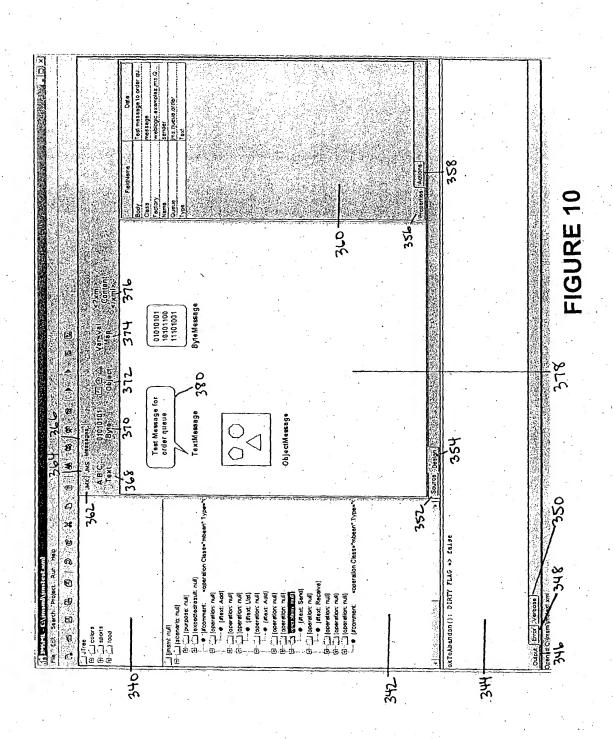Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE jmsml PUBLIC "-//BEA Systems Inc//DTD JMSML Specification 1.0 JMSML//EN" "jmsml.dtd">

<jmsml>
  <scenario Name="Dynamic Queue creation" Verify="false">
    <purpose>
      To test the dynamic creation of queue
    </purpose>
    <expectedresult>
      JMS queue destination should be successfully created with the specified attributes. In order to verify t
      are two additional operations are done as below.

      1. Take the statistics information of the JMSServer "Warehouse" before and after the creation of the queue destin
         see the newly created queue is been added the current destination count of the JMSServer "Warehouse".

      2. A sender and receiver will be created to send and receive a text message to and from the newly created "orderqu

      If the above two operations are successful, the test is declared as PASSED. Otherwise the test is declared as FA
    </expectedresult>
    <operation Class="mbean" Name="Warehouse" Targets="examplesServer" Type="JMSServer">
      Add
    </operation>
    <operation Class="mbean" Name="Warehouse" Type="JMSServer">
```

Source | Design

```
JMSServer : Warehouse was added to server : examplesServer :
Error adding JMSServer : Warehouse
Exception: com.bea.jmsml.engine.JMSMLException: weblogic.management.MBeanCreationException:  - with nested exception:
[javax.management.InstanceAlreadyExistsException: examples:Name=Warehouse,Type=JMSServer]
Fluxing out and closing files

Name                        : Warehouse
Targets[0]                  : examplesServer
BytesMaximum                : -1
BytesThresholdHigh          : -1
BytesThresholdLow           : -1
MessagesMaximum             : -1
MessagesThresholdHigh       : -1
MessagesThresholdLow        : -1
BytesPagingEnabled          : false
MessagesPagingEnabled       : false

Name                        : Warehouse
```

Output | Error | Verbose

FIGURE 7

200
202
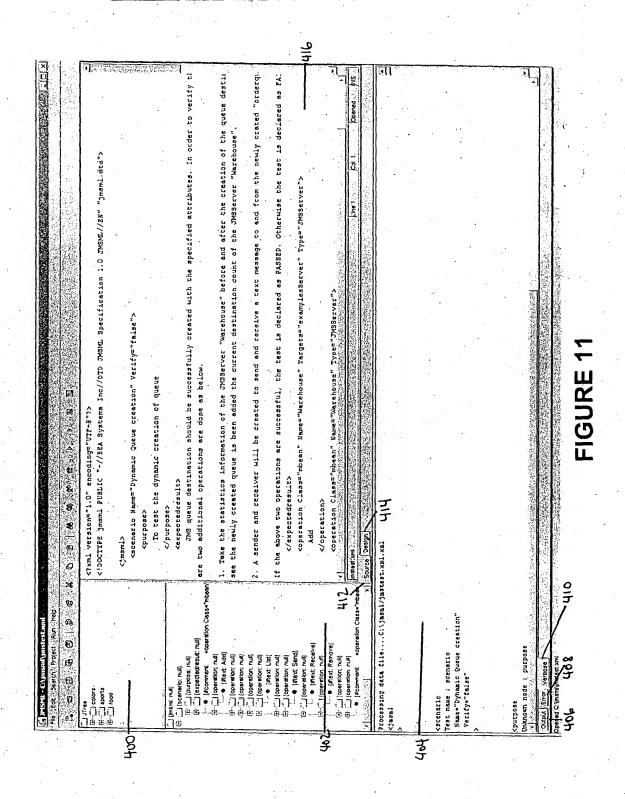206
204
208
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212
214
216

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
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Confirm No: Unknown   Phone: (415) 362-3800
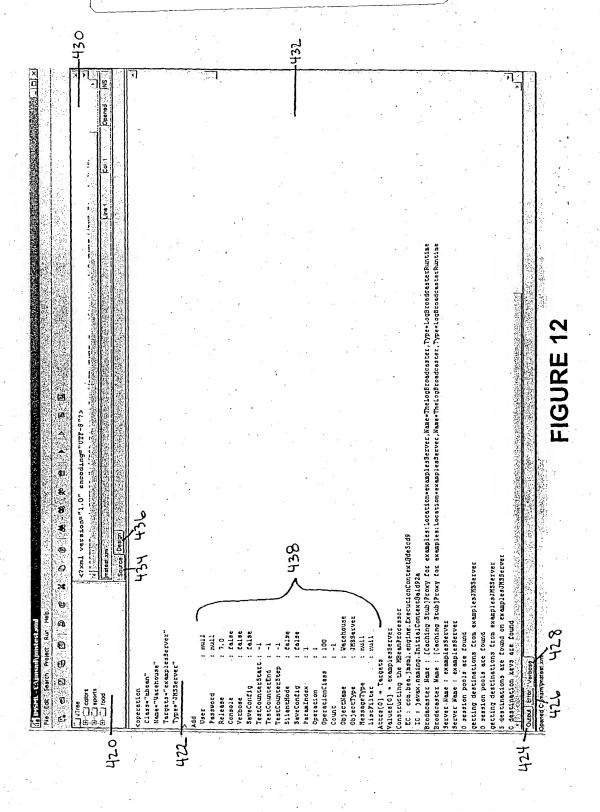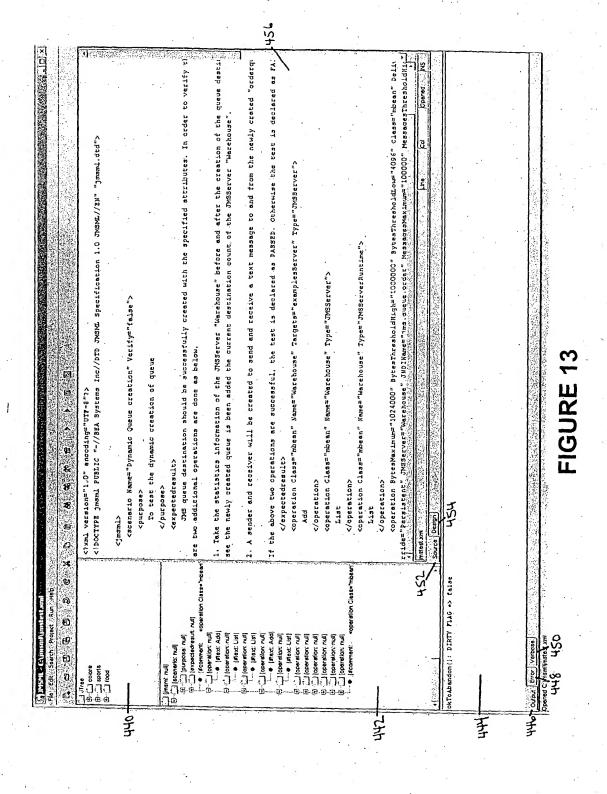Filed: Herewith   Express Mail No.:EV 327 616 823 US
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FIGURE 8

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
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Serial No.: Unknown   Atty/Agent: Karl Kenna
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FIGURE 9

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
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Serial No.:   Unknown   Atty/Agent: Karl Kenna
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FIGURE 10

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
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Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE jmsml PUBLIC "-//BEA Systems Inc//DTD JMSML Specification 1.0 JMSML//EN" "jmsml.dtd">
<jmsml>

    <scenario Name="Dynamic Queue creation" Verify="false">

        <purpose>
            To test the dynamic creation of queue
        </purpose>
        <expectedresult>
            JMS queue destination should be successfully created with the specified attributes. In order to verify t...
        are two additional operations are done as below.

        1. Take the statistics information of the JMSServer "Warehouse" before and after the creation of the queue destl...
        see the newly created queue is been added the current destination count of the JMSServer "Warehouse".

        2. A sender and receiver will be created to send and receive a text message to and from the newly created "orderq...

        If the above two operations are successful, the test is declared as PASSED. Otherwise the test is declared as FA...
        </expectedresult>
        <operation Class="mbean" Name="Warehouse" Targets="examplesServer" Type="JMSServer">
            Add
        </operation>
        <operation Class="mbean" Name="Warehouse" Type="JMSServer">
```

```
Processing data file.....C:\jmsml\jbstest.xml.xml
<jmsml
>

<scenario
Test name : scenario
Name="Dynamic Queue creation"
Verify="false"
>

<purpose
Unknown node : purpose
```

FIGURE 11

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
Docket No.:   BEAS-01351US1   Inventor(s): Kathiravan Sengodan
Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
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```
<?xml version="1.0" encoding="UTF-8"?>

<operation
 Class="mbean"
 Name="Warehouse"
 Targets="examplesServer"
 Type="JMSServer">

 Add
   User            : null
   Password        : null
   Release         : 7.0
   Console         : false
   Verbose         : false
   SaveConfig      : false
   TestCounterStart: -1
   TestCounterEnd  : -1
   TestCounterStep : -1
   SilentMode      : false
   SaveConfig      : false
   ParamIndex      : 1
   Operation       : 1
   OperationClass  : 100
   Count           : -1
   ObjectName      : Warehouse
   ObjectType      : JMSServer
   MessageType     : null
   ListFilter      : null

 Attrs[0] - Targets
 Values[0] - examplesServer
 Constructing the MBeanProcessor
 EC : com.bea.jmsml.engine.ExecutionContext@de5cd9
 IC : javax.naming.InitialContext@e1d92a
 Brodcaster Name : [Caching Stub]Proxy for examples:Location=examplesServer,Name=TheLogBroadcaster,Type=LogBroadcasterRuntime
 Brodcaster Name : [Caching Stub]Proxy for examples:location=examplesServer,Name=TheLogBroadcaster,Type=LogBroadcasterRuntime
 Server Name : examplesServer
 Server Name : examplesServer
 0 session pools are found
 getting destinations from examplesJMSServer
 0 session pools are found
 getting destinations from examplesJMSServer
 5 destinations are found on examplesJMSServer
 0 destination keys are found
```

FIGURE 12

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
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Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE jmsml PUBLIC "-//BEA Systems Inc//DTD JMSML Specification 1.0 JMSML//EN" "jmsml.dtd">

<jmsml>
    <scenario Name="Dynamic Queue creation" Verify="false">
        <purpose>
            To test the dynamic creation of queue
        </purpose>
        <expectedresult>
            JMS queue destination should be successfully created with the specified attributes. In order to verify t
            are two additional operations are done as below.

1. Take the statistics information of the JMSServer "Warehouse" before and after the creation of the queue destin
   see the newly created queue is been added the current destination count of the JMSServer "Warehouse".

2. A sender and receiver will be created to send and receive a text message to and from the newly crated "orderq

If the above two operations are successful, the test is declared as PASSED. Otherwise the test is declared as FA
        </expectedresult>
        <operation Class="mbean" Name="Warehouse" Targets="examplesServer" Type="JMSServer">
            Add
        </operation>
        <operation Class="mbean" Name="Warehouse" Type="JMSServer">
            List
        </operation>
        <operation Class="mbean" Name="Warehouse" Type="JMSServerRuntime">
            List
        </operation>
        <operation BytesMaximum="1024000" BytesThresholdHigh="1000000" BytesThresholdLow="4096" Class="mbean" Deli
ride="Persistent" JMSServer="Warehouse" JNDIName="jms.queue.order" MessaceoMaximum="100000" MessagesThresholdHi
```

FIGURE 13

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
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FIGURE 14

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
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Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
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FIGURE 15

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
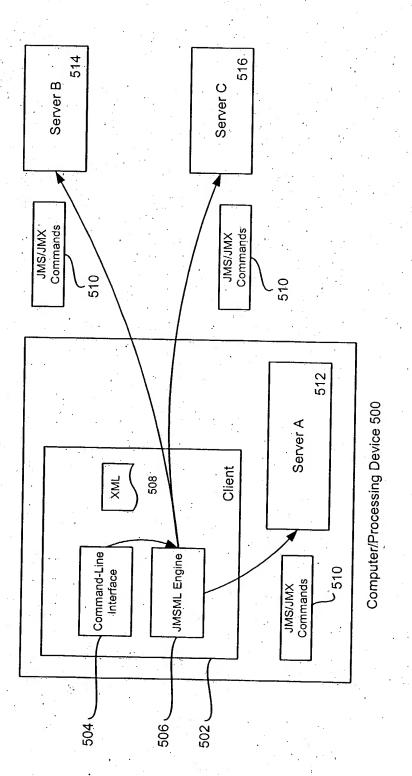Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
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User Opens Command-Line Interface at Client ⟋ 530

User Enters Commands to Invoke Java Method ⟋ 532

Corresponding Command (In XML Format) is Passed to JMSML Engine ⟋ 534

Engine Generates Appropriate JMS/JMX Commands and Communicates them to Server Results are Optionally Generated ⟋ 536

(Optionally) Store Results in Results File ⟋ 538
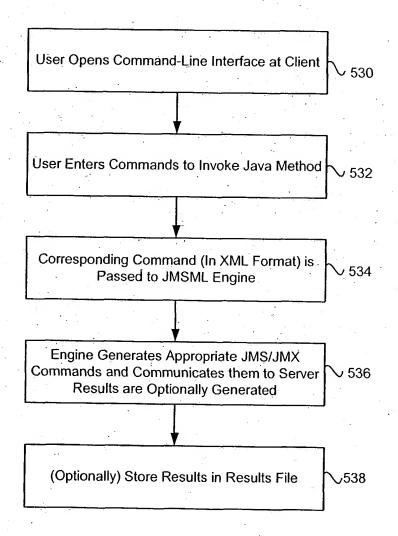
FIGURE 16

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone: (415) 362-3800
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FIGURE 17

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
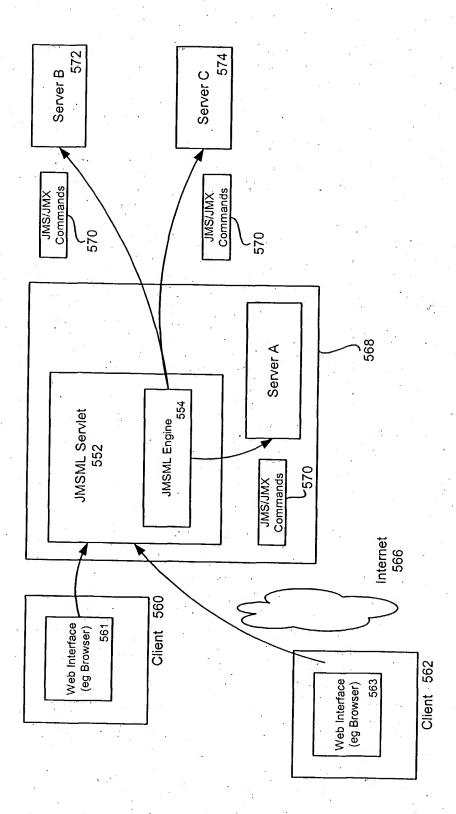Docket No.: BEAS-01351US1   Inventor(s): Kathiravan Sengodan
Serial No.:   Unknown   Atty/Agent: Karl Kenna
Confirm No: Unknown   Phone:.   (415) 362-3800
Filed: Herewith   Express Mail No.:EV 327 616 823 US
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User Enters Commands into Web Interface/
Browser at Client ⟋580

↓

Browser Communicates Code to JMSML
Servlet/Engine ⟋582

↓

JMSML Servlet/Engine Formulates JMS/JMX
Commands ⟋584

↓

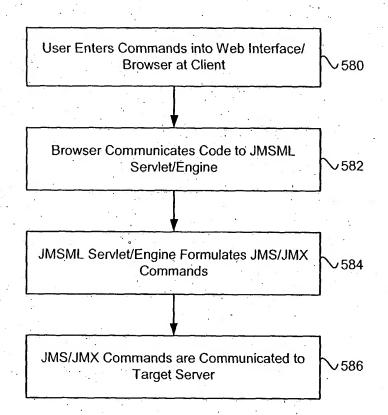JMS/JMX Commands are Communicated to
Target Server ⟋586

FIGURE 18

Title: SYSTEM AND METHOD FOR JAVA MESSAGE SERVICE MARK-UP...
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Serial No.:   Unknown   Atty/Agent: Karl Kenna
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JMSML – Web Interface

Please select any type of URL specification and type in the XML operation element to execute JMS functions.

○ URL
◉ URL
t3 :// localhost : 7001

Username: system
Password: gumby1234

XML File: OR Enter Operations

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE test PUBLIC "-//BEA Systems
Inc//JMS Test Specification 1.0
JMSTest//EN" "jmstest.dtd">

<test
Name="JMSServer_conf_add_default_norm3"
    Verify="false">

<operation Class="mbean"
Type="JMSServer" Name="newBE3"
    Targets="myserver"
    BytesMaximum="1024"
    BytesThresholdHigh="512"
    BytesThresholdLow="64"
    MessagesMaximum="100"
    MessagesThresholdHigh="50"
MessagesThresholdLow="10">Add</operation>
>

<operation Class="mbean"
    Type="JMSServer"
    Name="newBE3">List</operation>

<operation Class="mbean" Type="Queue"
```

Save Results ☑ Verbose ☐ Release: 6.0

Server URL : t3://172.18.46.49:7001
Output

```
JMSServer : newBE3 was added to
server : myserver !
Name                       : newBE3
BytesMaximum               : myserver
Targets[0]                 : 1024
BytesThresholdHigh         : 512
BytesThresholdLow          : 64
MessagesMaximum            : 100
MessagesThresholdHigh      : 50
MessagesThresholdLow       : 10
-------
Queue Destination : newQ3 was added to
JMSServer : newBE3 !
Name                       : newQ3
JNDIName                   : qa.jms.destination.newQ3
JMSServer                  : newBE3
StoreEnabled               : default
Type                       : Queue
BytesMaximum               : -1
BytesThresholdHigh         : -1
BytesThresholdLow          : -1
MessagesMaximum            : -1
MessagesThresholdHigh      : -1
```

test

Server URL : t3://172.18.46.49:7001
Verbose

```
Processing data file ....../.../jms6958.xml
<test
Test name : test
Name="JMSServer_conf_add_default_norm3"
Verify="false"
>

<operation
BytesMaximum="1024"
BytesThresholdHigh="512"
BytesThresholdLow="64"
Class="mbean"
MessagesMaximum="100"
MessagesThresholdHigh="50"
MessagesThresholdLow="10"
Name="newBE3"
Targets="myserver"
Type="JMSServer"
>
Add
User          : null
Password      : null
Release       : 6.0
```

600

FIGURE 19